# THE TECH

VOL. XXVII. No. 15 BOSTON, MASS., MONDAY, NOVEMBER 4, 1907 PRICE THREE CENTS

## HARVARD SWAMPS TECH 27-53.

### *LACK OF CONDITION OF TECH MEN SHOWS UP.*

**Tech Never In It After The Start.**

Harvard overwhelmingly defeated Technology Friday in the annual cross country run. It was Crimson's race from the start at Highland station to the finish on Technology Field. Captain Crosby of the Harvard team ran a splendid race leading the runners and his team nearly the whole distance, and finishing 60 yards ahead of the second man, his team mate, Dole.

The remarkable feature of the running was the short distance between the first and last men finishing on the Field. Never in the history of the run were the runners so closely bunched as in yesterday's race. The time was not nearly so fast as last year, 2 minutes 44 4-5 seconds being made, against 2 minutes 19 seconds, the record made last year by Howland.

Technology's defeat can be directly attributed to the lack of practice in the last few days since the trials for the team. In the trials the first man, Captain Howland, ran within 40 seconds of the record, with the following men well bunched. Since then the confidence had been too great and the men had not turned out to run. Last Monday only one man reported.

After the defeat Coach Kanaly laconically remarked: "It will be a good lesson for the fellows."

Just before the Tech team met at the Back Bay Station to go out to the start Coach Kanaly received word from M. Nickerson, '11, a member of the team, that he could not run in the race owing to school work. M. Ames, '08, was substituted.

At the half-mile mark Captain Howland of Tech and Captain Crosby of Harvard were running abreast a few yards ahead of the field which was well bunched. At the end of the two miles the bunch of runners had strung out

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### *FENCING CLUB EXHIBITS.*

**Feature was Contest With Duelling Swords.**

At the first monthly exhibition of the Fencing Club, held at 22 St. Botolph street last Friday evening, the feature of the evening was a contest with duelling swords between Capt. Loring and Mr. Cushing. There were besides thirteen bouts with the foils, and in one of these Mr. Cushing took part also. Two members of last year's varsity team were present, three men who have never touched a foil within a couple of weeks, and all stages between.

As this meet was strictly informal, and held merely to interest possible candidates for the team, no account was taken of points. The bouts were three minutes each, and each man had two or three bouts. The contest between Capt. Loring and Lange of the varsity team was a well-contested bout, and that between Capt. Loring and Coach Fournon was a fine exhibition of skill although one-sided.

After the exhibition Capt. Loring announced that the second one, to be held a month from now, would be an interclass meet, in which Junior, Fresman and perhaps Sophomore teams will compete. There will also be prizes for individual handicap contests for all who wish to compete.

### *BRITISHERS TO DINE.*

At a meeting of the British Empire Association held last Friday, the date for the next dinner was set at next Wednesday at 6.30 P. M. in the Marliave Hotel, 11 Bosworth street, near the Tremont street subway exit. An invitation from the Canadian Club at Harvard to attend a meeting in the assembly hall of the Harvard Union was accepted. This meeting is at 8 P. M., Saturday, Nov. 16.

## TECHNOLOGY TO HAVE EARTHQUAKE APPARATUS.

### *CHANCE FOR RESEARCH WORK.*

**New Apparatus and Specimens Secured in Geological Department.**

A gift of money for the establishment of a seismograph at the Institute has been received from the Caroline A. R. Whitney estate, and plans are under way for the securing of the instrument from Germany, and its installation in a suitable locality in Boston. This gift and the liberal support which was given to the Technology expedition to the Aleutian Islands marks the establishment at the Institute of research work in physical geology.

There is indeed a fund to put this work on a permanent basis. The Institute is well equipped to carry on research and investigation concerning earthquake construction, the economy of life and property in flood districts, fluctuations of shore lines with reference to harbor construction, and other similar problems involving protection of life and property from destructive natural forces.

A research assistant is needed at once to care for the seismograph and give attention to seismological problems. There is no more fitting place for a research laboratory of the kind indicated than the geological department of an engineering school. The gift or subscription of two to three thousand dollars a year for ten years to come, would suffice to give this project a fair start, if a similar appropriation might be made from the funds controlled by the corporation.

Several important changes have been made in the geological courses. Prof. Johnson has resigned to take up work at Harvard, and Prof. Daly has taken charge temporarily of the class in topographic geology. Prof. Daly has also been lecturing in general geology. Economic geology which has been formerly under Prof. Crosby is now given by Prof. Kemp of Columbia University and Dr. Loughlin. Dr. Loughlin is giving lectures to the third year men. In the winter, after the present field season, Prof. Kemp will take charge of the advanced economic geology.

New instruments and also much new material have been added to the mineralogical and petrographical laboratories. The most important addition is a petrographical microscope of the latest model from Voigt and Hochgesang of Gottingen, Germany. This microscope is to be used in research work in mineralogy and petrography, by the instructors and advanced students. Minerals, donated by members of the staff, students, past graduates, and friends of the Institute, have been received from many localities.

Among the more notable gifts are a series of silver ores from Cobalt, Ontario; some extremely good specimens of the nickel ore from Sudbury, Ontario, showing the nickel mineral, pentlandite; copper minerals from Butte, Montana; and iron ores with their associated country rocks from the Adirondack region. Dr. Warren, professor of mineralogy and petrography, has also completed an exhaustive petrographical study of the titanium iron ores of Cumberland, Rhode Island. The specimens which he has collected and described have increased very materially the value of the rock collection.

### *1910 ELECTIONS ANNOUNCED.*

The results of the 1910 election of representatives to the Athletic Association are: K. D. Fernstrom, G. Emerson, J. Avery, F. B. Avery,, and D. C. McMurtrie.

### *INSTRUCTOR GETS CUP.*

At the celebration of the 162d anniversary of the First Corps of Cadets, at the Hotel Somerset, C. C. Batchelor, instructor in English at the Institute, and sergeant in Co. A, First Corps of Cadets, was awarded a prize cup, as a member of the company team that won the corps trophy for marksmanship during the year 1906-1907.

## TECH IS TO GIVE GRADUATE COURSES.

### *PREXY SO ANNOUNCES TO SENIORS.*

**Prof. Swain Gives Qualities for Success and Bursar Tells Stories.**

President Noyes announced at the Senior dinner Friday evening that beginning next September the Institute will offer in every department courses leading to the degree of Master of Science. The guests at the dinner were President Noyes, Professor Swain and Bursar Rand, Kurt Vonnegut being toastmaster.

The results of the class elections were announced as follows: H. A. Rapelye, president; J. S. Barnes, vice-president; J. T. Tobin, secretary; B. L. Ginson, treasurer; Institute Committee, M. E. Allen and T. W. Orr; executive committee, W. A. Barton and S. R. Daddon; Athletic Association, H. E. Allen, H. R. Callaway, B. L. Ginson, G. T. Glover, and J. T. Tobin.

President Noyes said that the Faculty has been aiming at the Institution of graduate courses for several years, but owing to the large expansion which Tech underwent during the period of 1892 to 1904, it has been impossible to do so. This last year the enrollment remained about stationary so that an opportunity has been given to offer the advanced courses.

President Noyes said, "In order to produce the highest type of engineer, it is very important that the student should have a somewhat different character of work than that given in the regular four-year course, which is crowded with subjects of a technical character so that original research work can not be taken up. It is unfortunate that Institute men feel that they are educated at the end of their course. They feel that they are completely 'done,' but they are 'done' only on one side.

"If you get an offer of a position as an assistant instructor, take it. The advantage is great, for an assistant instructor reviews the subjects he has so recently been over and drives them home. This work thus differs from graduate study, which allows research work and instruction to small classes. The opinion is apt to be rather prevalent that this is a year wasted, but I consider it as valuable as either one of the last two years of undergraduate work.

"Not enough men come to Technology to prepare for teaching positions. The Institute gets more demands for such positions than it can fill. The idea is somewhat prevalent that a man goes into teaching because he has not energy enough to go into practical work. But the best men enter it in spite of the fact that the financial gain is less because they feel that the opportunity for service is greater. A man may each year lead a dozen or two dozen or only one or two young people into habits of thought which will determine their whole career. To a man who is naturally a student, the scholarly, intellectual

(Continued on page 3.)

### *SELIGMAN ELECTED CAPTAIN.*

At a recent meeting of the Freshman Relay Team, W. J. Seligman was elected captain. He has done very hard and consistent work and it is to this that his success may be attributed.

The Freshman Team is now working regularly in preparation for Field Day.

### *1910 WINS FROM LOWELL TEXTILE.*

In a loosely played game the Tech Sophomores defeated Lowell Textile on Saturday at Lowell by the score of 5—0. Tht only score was made in the early part of the game, and resulted from the use of old-time football tactics.

The Tech team, although superior to the Lowell aggregation, did not put up a very good game, and unless marked improvement is shown the outlook for Field Day is gloomy in the extreme. The only men who played consistently good football were Loutit, Saul, and Bell. The weak spots of the team were the guards and half-backs.

(Continued on page 3.)

## OFFERS $75 AS TECHNIQUE PRIZES.

### *WANT TO STIMULATE COMPETITION.*

**Technique Board Hard At Work To Make Up Time.**

In order to stimulate competition and to gain more contributions to the various departments of Technique, the Board of Editors has offered the following prizes, to be awarded upon publication of the book.

For a cover design, to be executed in black and white, the dimensions to be at least twice those of the reproduction, $10.00. A color scheme may be submitted with the drawing.

For a full page drawing for Fraternities, to be executed preferably in black and white with the addition of not more than two colors, the dimensions to be at least twice those of the reproduction, $5.00.

For a full page drawing for Athletics, to be executed preferably in black and white with the addition of not more than two colors, the dimensions to be at least twice those of the reproduction, $5.00.

All drawings for the art competitions must be handed in, on or before the last day of the first term. Further information may be obtained from Miss Helen McG. Longyear 1909. Originality of thought and execution together with neatness in preparing drawings will be considered in making awards.

For each of the four class histories, $5.00. Novelty and originality with the principal considerations in the awards. Information as to length, method of preparation, etc., may be obtained from R. H. Allen 1909. The class histories must be handed in before the close of the first term.

For the five best Grinds, $1.00 each. It will be noted that both number and quality of Grind submitted will affect the chances of the competitors; for the one submitting the largest number of Grinds will have the best chance to win several or all of the five dollars offered.

All Grinds should be plainly written on one side of the paper and left at the Cage for "Grind Editor—Technique 1909." Further information in regard to this competition may be obtained from R. H. Allen 1909.

For the largest amount of advertising obtained for Technique 1909, provided that the amount exceeds $100.00, and excluding advertisements appearing in Technique 1907 and 1908, $20.00. For the second largest amount, provided it exceeds $100.00, and excluding advertisements appearing in Technique 1907 and 1908, $10.00. In addition 10 per cent. commission will be paid on all advertisements obtained, excluding those appearing in Technique 1907 and 1908, so that the winner of the first prize will receive more than $30.00.

Those expecting to enter the advertising competition must first consult with M. R. Scharff, 1909, to receive advertising contracts and instructions. No commission or prizes will be paid to any competitor not complying with conditions. Lower-classmen are especially urged to enter this competition, so as to gain experience for future work on Technique.

These prizes amounting in all to $75.00, are offered not to pay for contributions, but to stimulate competition, and to make Technique the result of the combined efforts of all Tech men and not the work of fifteen members of the Junior Class alone.

Outside of the competitions, assistance in the way of prose and poetry compositions, drawings for headings, helpful ideas, and promptness and courtesy in giving information or statistics will be gratefully welcomed. The heads of the various departments and all of the members of the Board will be glad at all times to confer with anyone in regard to any detail of the work.

### *ROUND TABLE MEETING POSTPONED.*

The Round Table Club dinner that was to have been held Saturday night was postponed.

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**Monday, November 4, 1907.**


## TECH SPIRIT ?

What would be said of a team at any other college but the Institute, that, after making a fine showing in the trials, should cease training? What would be said to the captain of a team who, even if incapacitated, should remain away from practice altogether? What would be said to the member of the team, who, after running in the trials, and practicing up to the day of a big race, announces his intention to quit the team less than an hour before the contest, because of alleged overwork?

Yet such has happened with the Technology Cross Country Team. The team stopped practicing because it was too good to run, already prepared to meet the foe. The captain ceased to attend practice because he had slight attack of rheumatism in the ankle. A Freshman member of the team notified the Coach a short time before the race that he could not attend because school work interfered.

Where this Freshman finds work in the first term of the Freshman year that interferes with outside interests is matter of great conjecture. This last action is indeed a fitting climax to the others.

Yet there were slight gleams of the true fire shown by some of the members of the team. One Freshman, coming here with that spirit that has made Phillips Andover famous, ran a splendid race. Another Freshman, who was running much over weight, who has practiced regularly, ground out the distance with good pluck. One of the plucky members of English tribe ran his heart out.

But the general morale of the team was lacking. There was dearth of that spirit shown last year by a team that was led by a man with a sprained ankle, this leader aided and abetted by a red-headed bundle of nerves.

This arrant spirit of "Quit, it isn't worth the struggle," has appeared in Tech athletics, in recent years. We have a member of last year's basketball team refusing to play in an intercollege game because he was not in the first period. We have a member of one of the class teams this fall, saying, "I don't want to play guard. I'm not out here for the class. I'm out for my personal pleasure."

We can look back on other teams in the Institute and find the men that have made Technology's name great in the world of sport. Two years ago there was a member of the cross country team who, having no time in the morning or afternoon, went without his lunch for the practice in the noon hour, dressing and undressing out-of-doors.

As has been said, we had a captain last year that ran on an ankle that should have been kept indoors. There is no need for a man to permanently injure himself in sport, but this man is used for an example in spirit. For another member of last year's team every step was agony in a race, yet he came through in the front, without a whine.

At other colleges, and even at the big prep schools we find men accomplishing deeds, most wonderful for their Alma Mater. We find from the New England colleges men coming who go forth and do battle forgetful of their little ills.

Dried up old educators bewail this alleged hysteria in college athletics, this hushed, expectant, strained night before, this cheering and singing on the day of contest, this wild, hilarious night after celebration. But withal, does it not make men if properly controlled. Does it not rouse the fire of a man's enthusiasm, his emotions, which are after all, the man.

This sort of spirit we have had at Technology, for have we not in our Union, marks that show that there was once a body of real, live, feeling, enthusiastic men at the Institute, men who fought for Technology and lost, fought for Technology and won, fought with that spirit that has made the name famous. And these men are among the most honored of our Alumni, among the most successful.

Either the Institute is to become a sort of business college, a place where knowledge is hypodermically injected into a mob of mediocrities, or it is to become a place where men are made, where there is a spirit, not of "do and die," but "work and accomplish," applied not only to studies, but to athletics.

## HARVARD SWAMPS TECH, 27-53.

(Continued from page 1.)

into a single file across the open fields.

The Crimson captain came onto the Field with a lead of about 40 yards which he increased to 60 in the sprint around the quarter-mile of cinder path. Dole of Harvard followed him coming in 15 seconds behind the leader with the time 25 minutes 59 seconds.

Up to the gate of the Field Hadden held second place, but just as he was passing between the gate posts he reeled and fell. He was carried to the dressing rooms and it took 50 minutes to bring him back to consciousness. Dr. Burke examined Hadden and found that some organic trouble of the heart had caused the collapse.

Seven seconds behind Dole came Lanier with the time 25 minutes 6 seconds, while following were the first Tech men to finish. MacCreadie ran a plucky race with the short experience he has had, coming in four seconds behind Lanier with the time 25 minutes 10 seconds.

Then came an exciting finish between R. Ellis of Tech and Carter of Harvard. The two runners came round the track almost abreast, Ellis winning by about a foot. The time given for the two were the same, 25 minutes 16 seconds.

The next two, Whitney and Hoyt of Harvard, had a good fight for the fifth and sixth places, the last that scored points for Harvard. Whitney beat Hoyt by a few inches, the time being identical, 25 minutes 25 seconds. Then Batchelder scored for Tech, while Howland of Tech had a hard time to beat Souder.

(Continued on page 3.)


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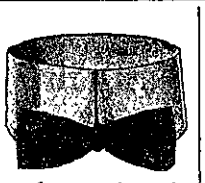

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### HARVARD SWAMPS TECH, 27-53.

(Continued from page 2.)

Then followed the rest of the Tech team with one Harvard runner.

The points were scored by giving to each runner the point equal to the number of the place he secured, six men scoring for each team, the team with the least total winning.

The order of finishing and times were: 1, M. S. Crosby, '08, H., 24m. 44 4-5s.; 2, R. E. Dole, '10, H., 24m. 59s.; 3, C. Lanier, '10, H., 25m. 6s.; 4, W. T. MacCreadie, '11, T., 25m. 10s.; 5, R. Ellis, '09, T., 25m. 16s.; 6, E. W. Carter, '10, H., 25m. 16 2-5s.; 7, M. H. Whitney, '09, H., 25m. 25s.; 8, R. F. Hoyt, '10, H., 25m. 25s.; 9, C. L. Batchelder, '08, T., 25m. 35s.; 10, H. H. Howland, '08, T., 25m. 49s.; 11, E. L. Souder '10, H., 25m. 49 1-5s.; 12, R. I. Hulsizer, '09, T., 25m. 50s.; 13, P. D. White, '11, T., 26m. 16s.; 14, L. C. Cooley, '11, T., 27m.; 15, S. M. Niles, '11, T., 27m. 6s.; 16, P. Woodman, '08, H., 27m. 9s.; 17, E. S. Howe, '09, T., no time; 18, M. Ames, '08, T., no time. Total score, Harvard 27, Technology 53.

### TECH TO GIVE GRADUATE COURSES.

(Continued from Page 1.)

life of teaching is more enticing than practical work."

President Noyes said further that the man who achieves the highest success not only carries along existing processes, but improves the old and originates new processes. That it is always hard to get time to do original work, President Noyes admitted, but he urged that it was the one thing to be striven for and told of the remark that a man gets his salary for doing what he is paid for, and gets his advancement for doing more work than he is paid for.

After calling attention to the need for closer relations between student and instructor, and to the satisfaction which the teacher feels, in the development of a student, Prof. Swain spoke of the six qualities which he considers necessary for success, saying in part:

"The first quality is judgment and tact—the ability to thoroughly grasp a problem, see all its elements in their true perspective, properly weigh them and form a correct opinion as to the course to pursue, and then to follow that course in a way that will not call up criticism and ill feeling. This quality is paid for the highest.

"Second, comes character, which consists of honesty, integrity, and all the other qualities of high character. It is hard to see which of these first two qualities is the more important, but it is certain that a man may be perfectly honest and yet, because he lacks judgment, be a failure.

"The third quality is a trained mind—a mind trained in habits of thoughts which will enable it to take up any new problem and attach it successfully. No matter what training a man has received, with a trained mind he can do anything. There is one graduate of the Civil Engineering Department who is now a clergyman.

"Fourth, experience. It is less valuable than any of the other three, but still it is very valuable. A man with experience has a great asset, and this is the more valuable if he uses the experience of others. Fifth, comes personal qualities, by which I mean the personal attributes, manners, graces and address, which tend to make a favorable impression, and, last, knowledge, which is the mere acquisition of facts in the mind."

Bursar Rand was on deck with a long list of good stories and it was not until he was at the end of his speech that he became serious. He then said:

"After you have graduated, be loyal to Tech. Remember the good times and the Union. You'll forget the hard lessons and the grind, but you'll remember the pleasant things. We need your support and loyalty. President Tucker has truthfully said that the success of an educational institution is in the loyalty of its sons. Remember that just in so far as you succeed you reflect credit on the Institute."

### 1910 WINS FROM LOWELL.

(Continued from page 1.)

The summary:

| TECH 1910. | | LOWELL. |
|---|---|---|
| Bell, l.e. | | r.e., Prescott |
| Emerson, l.t. | | r.t., Abbott (Capt.) |
| Manson (Capt.), l.g. | | r.g., Blaikie |
| Gott, c. | | c., Potter |
| Fitzwater, r.g. | | l.g., Henry |
| Wallower, r.t. | | l.t., Parks (Proctor) |
| Loutit, r. | | l.e., Gale |
| Billings, q.b. | | q.b., Hardy |
| Hurley (Huber), r.h.b. | | l.h.b., Gonnam |
| Saul (Darrow), f.b. | | f.b., Neelon |
| O'Hearn, l.h.b | | r.h.b., Dwight |

Touchdown by Saul. Score, 5—0. Referee, Thorpe. Umpire, Park. Linesmen, O'Neill, Farr. 20 and 15 minute periods.


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# The Technology Review

A QUARTERLY MAGAZINE DEVOTED TO THE INTERESTS OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

AND

PUBLISHED BY THE ASSOCIATION OF CLASS SECRETARIES

83 NEWBURY STREET, BOSTON

The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

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## CALENDAR.

Monday, Nov. 4.

1.00 P. M. Meeting 1910 M. I. T. A. A. Members in 34 Rogers.
4.00 P. M. Glee Club Rehearsal at the Union.
4.00 P. M. Mandolin Club Rehearsal in 33 Rogers.
7.30 P. M. Electrical Engineering Society Smoker at the Union.

Tuesday, Nov. 5.

1.00 P. M. 1910 Class Meeting in Huntington Hall.
6.30 P. M. 1911 Class Dinner at the Union.
8.00 P. M. Second Evening of the Season of the Technology Club, 83 Newbury St.

Wednesday, Nov. 6.

6.30 P. M. British Empire Association Dinner at Hotel Marliave, 11 Bosworth St.
8.00 P. M. Architectural Society Meeting at the Union.

## FACULTY NOTICES

PRECISION OF MEASUREMENTS.—Exercises for students in Course III, third year, will begin on and after Wednesday, Nov. 6, as follows:

Sections 1A and 2, Wednesday 2-3, and Saturdays 9-10.

Sections 1B and 3, Thursdays 2-3, and Saturdays 10-11. All exercises will be held in 21 Lowell. Students should provide themselves with Notes on Precision of Measurements and Notes on Graphical Methods.

APPLIED MECHANICS.—Course III, VI and X begin on and after Monday, Nov. 4. Students will recite as follows: Course VI (A-K) inclusive, to Assoc. Prof. Fuller in 11 Pierce. Courses III and VI (L-S) inclusive, to Mr. Hayward in 21. Eng. B. Courses VI (T-Z) and X to Mr. Smith in 47 Eng. A.

## NOTICES.

1911.—Relay Team report regularly for important practice.

BRITISH EMPIRE ASSOCIATION.—There will be a meeting of the British Empire Association today at 1 P. M. in 16 Rogers.

CATHOLICS.—Every Catholic in the Institute must consider it his duty to be present at the first meeting of the Catholic Club, Tuesday, Nov. 12, at 8.00 P. M.

BANJO CLUB.—Because of the concert by the Musical Clubs Tuesday night, Nov. 5, the regular rehearsal of the Banjo Club will be omitted.

1909. New students and others of 1909 who have paid their 1906-07 class dues and have not received ballots can obtain same from members of the Nomination Committee. A. L. Moses, J. P. Finnie, A. R. Mitchell, F. G. Taite, P. E. Young.

## CLASSIFIED ADS.

Advertisements of this kind under different classifications are inserted at the rate of five cents a line, averaging six words to a line, payable in advance.

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